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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/775,306	02/10/2004	Brian J. Carrigan	4316-040284	1519

28289 7590 12/30/2011

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EXAMINER	
SHAPIRO, LEONID	
ART UNIT	**PAPER NUMBER**
2629	

NOTIFICATION DATE	DELIVERY MODE
12/30/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patents@webblaw.com

Office Action Summary	Application No.	Applicant(s)	
	10/775,306	CARRIGAN ET AL.	
	Examiner	Art Unit	
	Leonid Shapiro	2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *24 February 2010*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-54* is/are pending in the application.

4a) Of the above claim(s) *20-54* is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-19* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 1-2,6-13,17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Konno et al. (20030080932 A1) in view of Carrie (5,175,805).

As to claims 1,12 Konno et al. teaches a method and system of capturing a new video frame, wherein said new video frame comprises a series of new frame pixels to be captured, which series includes an initial new frame pixel to be captured and a final new frame pixel to be captured, the method comprising the steps ,of, beginning with the initial new frame pixel (fig. 23, items 101,114, par. 0142):

(A) receiving for comparison, at a comparison module, a new frame pixel from the series transmitted to the comparison module from a target computer and being represented in the video signal of the target computer (fig. 23, items 101,114, par. 0142); then

(B) comparing, using the comparison module, the new frame pixel to a corresponding reference frame pixel of a reference video frame represented in the video signal of the target computer and previously transmitted to the comparison module from the target computer (fig. 23, items 101,114, par. 0142); then

Konno et al. does not disclose

(C) if the final new frame pixel has not been captured, repeating steps A and B for the next n frame pixel in the series.

Carrie teaches

(C) if the final new frame pixel has not been captured, repeating steps A and B for the next new frame pixel in the series ; whereby a remote computer displaying the video output of the target computer is updated using results of the comparison between new frame pixels and corresponding reference frame pixels (fig. 2, item 470,475, col. 6, lines 47-49).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate teachings of Carrie into Konno et al. system in order to efficiently use the memory (col. 2, lines 7-11 in the Carrie reference).

As to claims 2,6,13,17 Konno et al. teaches step B comprises the steps of determining if said new frame pixel is different from said corresponding reference frame pixel, and, if said new frame pixel is different from said corresponding reference frame pixel, flagging a new frame update unit corresponding to said new frame pixel if said corresponding new frame update unit has not already been flagged (fig. 2, item 470,475, col. 6, lines 47-49).

As to claims 7-11 Konno et al. teaches the step of storing the new frame pixel in a new frame storage location, wherein the storing step is timed to permit comparison between the new frame pixel and the corresponding reference frame pixel (fig. 2, item 470,475, col. 6, lines 47-49).

2. Claims 3,14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Konno et al., Carrie in view of Schneider et al. (6,539,418 B2).

As to claims 3,14 Konno et al., Carrie do not disclose the step of converting each new frame pixel from analog to digital before said new frame pixel is received.

Schneider et al. teaches converting each new frame pixel from analog to digital before said new frame pixel is received (fig. 6, item 705, col. 9, lines 53-67).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate teachings of incorporate teachings of Schneider et al. into Konno et al., Carrie system in order to control of a remote computer (col. 2, lines 42-44 in the Schneider et al. reference).

As to claims 15-16 Schneider et al. teaches a programmable gate array and synchronous dynamic random access memory (col. 4, lines 18-48).

3. Claims 4-5,18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Konno et al., Carrie in view of Sano (7,308,147 B2).

As to claims 4,18 Konno et al., Carrie do not disclose a tile representing a plurality of pixels.

Sano teaches a tile representing a plurality of pixels (fig. 2, item 112, col. 5, lines 38-52).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate teachings of incorporate teachings of Sano into Konno et al., Carrie system in order to simplify data processing.

As to claims 5,19, it generally considered to be within the ordinary skill in the art to adjust, vary, select or optimize the numerical parameters or values of any system absent of showing criticality of in a particular recited value. Thus, it would have been obvious to one of

ordinary skill in the art at the time of invention to interchange value the tile size. Such a limitation would have been considered as obvious variation on the matter of selected tile sizes which fails patentably distinguish over the prior art of Bowman et al. and Yates et al. and Jones. In re Rose, 105 USPQ 237 (CCPA 1955).

Response to Arguments

4. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Telephone inquire

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid Shapiro whose telephone number is 571-272-7683. The examiner can normally be reached on 8 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

12/20/11
/L. S./
Examiner, Art Unit 2629

/Richard Hjerpe/
Supervisory Patent Examiner, Art Unit 2629